BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

First and Final

Name of Work: Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Civil Aim Consultants & Engineers

(An ISO 9001: Certified Company)

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NO.01,Satvika Nilaya , Opp. Widia Poorna Prajna School,
Ramaiah Layout,Nagasandra,Bangalore-560073

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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QC ABSTRACT

Nameof Work: Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	1:4:8	219.01 Cum	1	1	Pass
2	Steel	27.64 Tonne	1	1	Pass
3	M20	446.11 Cum	12	12	Pass
4	Slab (100mm)	1137.06 Sqm	1	1	Pass
5	Slab (230mm)	68.40 Sqm	1	1	Pass
7	M30	491.81 Cum	13	13	Pass
8	WMM	754.10 Cum	-	-	Pass
		Gradation	7	7	Pass
		AIV	4	4	Pass
		Shape Test	4	4	Pass
		Atterberg Limits	7	7	Pass
9	DBM	108.00 Cum	-	-	Pass
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	3	3	Pass
		Bitumen content	3	3	Pass
10	BC	387.85 Cum	-	-	Pass
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	8	8	Pass
		Bitumen content	8	8	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 09.12.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**M.S.V. Constructions Company**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		Novemeber- 2021
DATE OF TESTING		07.12.2021 to 09.12.2021

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.50 %	-

Note:

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of Work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Date of Testing : 09.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	77	7.70	7.70	92.3	90-100
2.36	141	14.10	21.80	78.2	75-100
1.18	169	16.90	38.70	61.3	55-90
600 Micron	152	15.20	53.90	46.1	35-59
300 Micron	248	24.80	78.70	21.3	8-30
150 Micron	163	16.30	95.00	5.0	0-10

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of Work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Date of Testing : 09.12.2021

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	25	2.50	2.50	97.5	90-100
1.18	72	7.20	9.70	90.3	70-100
600 Micron	88	8.80	18.50	81.5	40-100
300 Micron	221	22.10	40.60	59.4	5-70
150 Micron	504	50.40	91.00	9.0	0-15

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of Work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Date of Testing : 09.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	205	4.1	4.1	95.9	95-100
10	2491	49.8	53.9	46.1	25-55
4.75	1963	39.3	93.2	6.8	0-10

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of Work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Date of Testing : 09.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	185	1.23	1.23	98.77	95-100
20	8203	54.69	55.92	44.08	30-70
10	3177	21.18	77.10	22.90	10-35
4.75	2759	18.39	95.49	4.51	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date 10.12.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of Work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 10.12.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	538	621	1.15	13.5
2	TMT	10	0.619	551	639	1.16	14
3	TMT	12	0.889	563	657	1.17	14.5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 19.12.2021

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client : **: Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Contractor : **: M.S.V. Constructions Company, Contractor, Bangalore.**

Name of Work : : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

No.of Sample Tested : 03

Date of Testing : 19.12.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.384	2444.62	1.60	0.957	33.90	17.27	18.65	17.84	22.30
2	50.00	82.00	0.391	2428.47	1.64	0.961	34.20	17.42	18.81	18.08	22.60
3	50.00	84.00	0.405	2455.53	1.68	0.965	34.50	17.57	18.98	18.32	22.90

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 23.12.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Contractor : : M.S.V. Constructions Company, Contractor, Bangalore.

Name of Work : : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

No.of Sample Tested : 03

Date of Testing : 23.12.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M20

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	110.00	1.742	2489.32	1.22	0.916	112.90	17.75	19.17	17.56	21.95
2	90.00	112.00	1.757	2465.92	1.24	0.918	113.70	17.87	19.30	17.73	22.16
3	90.00	114.00	1.765	2433.69	1.27	0.921	114.60	18.01	19.46	17.91	22.39

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 22.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2021	22.12.2021	8.129	340.5	15.13
2	15.12.2021	22.12.2021	8.134	342.4	15.22
3	15.12.2021	22.12.2021	8.145	346.1	15.38

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 12.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2021	12.01.2022	8.162	502.7	22.34
2	15.12.2021	12.01.2022	8.170	506.1	22.49
3	15.12.2021	12.01.2022	8.174	508.9	22.62

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2021	25.12.2021	8.113	338.3	15.04
2	18.12.2021	25.12.2021	8.126	339.1	15.07
3	18.12.2021	25.12.2021	8.131	343.7	15.28

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Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 15.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2021	15.01.2022	8.177	502.4	22.33
2	18.12.2021	15.01.2022	8.184	506.1	22.49
3	18.12.2021	15.01.2022	8.196	507.3	22.55

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2021	25.12.2021	8.110	346.8	15.41
2	18.12.2021	25.12.2021	8.119	347.3	15.44
3	18.12.2021	25.12.2021	8.136	349.1	15.52

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

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(Building Geo-Tech & Highway Materials Testing Laboratory)

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 15.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2021	15.01.2022	8.171	505.1	22.45
2	18.12.2021	15.01.2022	8.174	508.3	22.59
3	18.12.2021	15.01.2022	8.180	509.4	22.64

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 28.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2021	28.12.2021	8.132	342.5	15.22
2	21.12.2021	28.12.2021	8.139	343.7	15.28
3	21.12.2021	28.12.2021	8.141	344.1	15.29

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 18.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2021	18.01.2022	8.170	504.4	22.42
2	21.12.2021	18.01.2022	8.157	506.1	22.49
3	21.12.2021	18.01.2022	8.163	508.7	22.61

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 31.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	31.12.2021	8.122	335.1	14.89
2	24.12.2021	31.12.2021	8.129	336.8	14.97
3	24.12.2021	31.12.2021	8.146	338.5	15.04

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 21.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	21.01.2022	8.191	503.1	22.36
2	24.12.2021	21.01.2022	8.198	502.4	22.33
3	24.12.2021	21.01.2022	8.202	508.7	22.61

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 31.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	31.12.2021	8.147	338.3	15.04
2	24.12.2021	31.12.2021	8.153	339.5	15.09
3	24.12.2021	31.12.2021	8.163	336.8	14.97

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 21.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	21.01.2022	8.175	505.8	22.48
2	24.12.2021	21.01.2022	8.188	506.3	22.50
3	24.12.2021	21.01.2022	8.191	508.7	22.61

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 03.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.12.2021	03.01.2022	8.125	341.2	15.16
2	27.12.2021	03.01.2022	8.133	348.3	15.48
3	27.12.2021	03.01.2022	8.141	351.5	15.62

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 24.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.12.2021	24.01.2022	8.200	505.8	22.48
2	27.12.2021	24.01.2022	8.205	511.1	22.72
3	27.12.2021	24.01.2022	8.197	512.3	22.77

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 06.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2021	06.01.2022	8.115	341.1	15.16
2	30.12.2021	06.01.2022	8.129	344.5	15.31
3	30.12.2021	06.01.2022	8.134	346.8	15.41

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 27.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2021	27.01.2022	8.158	501.9	22.31
2	30.12.2021	27.01.2022	8.160	506.7	22.52
3	30.12.2021	27.01.2022	8.166	511.2	22.72

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 06.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2021	06.01.2022	8.105	335.9	14.93
2	30.12.2021	06.01.2022	8.113	334.8	14.88
3	30.12.2021	06.01.2022	8.121	336.2	14.94

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 27.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M.S.V. Constructions Company, Contractor, Bangalore.

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2021	27.01.2022	8.199	502.1	22.32
2	30.12.2021	27.01.2022	8.179	509.4	22.64
3	30.12.2021	27.01.2022	8.185	507.6	22.56

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 14.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2022	14.01.2022	8.095	341.2	15.16
2	07.01.2022	14.01.2022	8.099	338.9	15.06
3	07.01.2022	14.01.2022	8.106	342.6	15.23

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 04.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M.S.V. Constructions Company, Contractor, Bangalore.**

Name of the work : Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 17th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Re-Construction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2022	04.02.2022	8.190	509.3	22.64
2	07.01.2022	04.02.2022	8.177	510.7	22.70
3	07.01.2022	04.02.2022	8.183	512.5	22.78

Note:

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